

LIST OF PUBLICATION

Refereed Journal Papers:

1. A. Samanta, M. N. Goswami, P. K. Mahapatra, Fe-doped ZnO nanoparticles as novel photonic and multiferroic semiconductor, *Materials Chemistry and Physics*, 240 (2020) 122180. DOI: 10.1016/j.matchemphys.2019.122180
2. A. Samanta, M. N. Goswami, P. K. Mahapatra, Multiferroicity in Mg-doped ZnO nanoparticles, *Materials Science and Engineering B*, 245 (2019) 1-8. DOI: 10.1016/j.mseb.2019.05.008
3. A. Samanta, M. N. Goswami, P. K. Mahapatra, Influence of Nd³⁺ doping in ZnO nanoparticles to enhance the optical and photocatalytic activity, *Materials Research Express*, 6 (2019) 065031. DOI: 10.1088/2053-1591/ab0c25
4. A. Samanta, M. N. Goswami, P. K. Mahapatra, Magnetic and electric properties of Ni-doped ZnO nanoparticles exhibit diluted magnetic semiconductor in nature, *Journal of Alloys and Compounds*, 730 (2018) 399-407. DOI: 10.1016/j.jallcom.2017.09.334
5. A. Samanta, M. N. Goswami, P. K. Mahapatra, Optical properties and enhanced photocatalytic activity of Mg-doped ZnO nanoparticles, *Physica E: Low-dimensional Systems and Nanostructures*, 104 (2018) 254-260. DOI: 10.1016/j.physe.2018.07.042
6. A. Samanta, M. N. Goswami, P. K. Mahapatra, Structural, optical, dielectric, magnetic and magnetoelectric properties of Co-doped ZnO nanoparticles, *Journal of Materials Science: Materials in Electronics*, 27 (2016) 12271–12278. DOI 10.1007/s10854-016-5385-5

Conference Paper:

7. A. Samanta, M. N. Goswami, P. K. Mahapatra, Optical emission from cobalt modified ZnO nanoparticles, XXXIX Conference of Optical Society of India, International Conference on Optics and Photonics: ICOP-2015, Dept of Applied Optics and Photonics, University of Calcutta, India, February 20-22, 2015, PP-79, ISBN 978-93-80813-31-8.

Paper Presentations in National & International Conference/ Seminar/Workshop:

Oral Presentations:

1. National Workshop on Science and Technology of Low Dimensional Systems (STLDS-2019), Dept. of Physics, Siksha 'O' Anusandhan University, Bhubaneswar- 751030, Odisha, November 1-3, 2019.
2. National Conference on Condensed Matter Physics, CONDENSED MATTER DAYS-2019 (CMDAYS19), Vidyasagar University, West Bengal, August 29-31, 2019.
3. Vidyasagar-Satyendranath Bose National Workshop on Expanding Horizon in Physics: EHP-2019, Vidyasagar University, West Bengal, January 16-22, 2019.

Poster Presentations:

4. National Advanced Workshop on Recent Advances in Condensed Matter Physics: NAWCMP-2018, Visva-Bharati, Santiniketan, August 3-4, 2018.
5. Vidyasagar-Satyendranath Bose National Workshop on Science of Materials: Challenges & Prospects: SMCP-2018, Vidyasagar University, West Bengal, January 17-19, 2018.
6. International Conference on Emerging Materials: ICEM-2017, Vidyasagar University, West Bengal, April 20-21, 2017.
7. XXXIX Conference of Optical Society of India International Conference on Optics and Photonics: ICOP-2015, Dept. of Applied Optics and Photonics, University of Calcutta, February 20-22, 2015, PP-79, ISBN 978-93-80813-31-8.
8. Vidyasagar-Satyendranath Bose National Workshop on Physics of Low Dimensional Structures: PLDS-2015, Vidyasagar University, West Bengal, March 25-27, 2015.
9. Vidyasagar-Satyendranath Bose National Workshop on Physics of Advanced Optical Materials and Photonics: PAOMP-2014, ITER, Siksha O Anusandhan University, Bhubaneswar, Odisha, March 26-28, 2014.